

MINI CHILLER



Introduction

Azar Nasim company designs and manufactures integrated air cooled mini chillers equipped with high efficiency scroll compressors for cooling requirement of apartments, office buildings, luxury villas and etc.

These mini chillers are designed and manufactured as complete package in cooling capacities from 3.5 to 10 TOR in single and three phase type.

Prominent feature of this product is its compact dimensions which is suitable for installation in small areas.

Body

The body is made of Aluminum profile, stainless steel or Carbon- steel and galvanized sheet with appropriate thickness and electro-static paint coating, according to the technical specifications.

Scroll Compressor

The company utilizes compressors from reputable brands such as Danfoss, Copeland and Hanbell for the units to have quiet and reliable performance over a wide operating temperature range. However, in order to protect the compressors from damage, a phase protector (for model which is available) is provided to prevent the compressors from rotating in the wrong directions.

Evaporator

Both of two types of evaporators (Shell & Tube and Plate heat exchanger) with high efficiency and compact design are available, according to customers request.

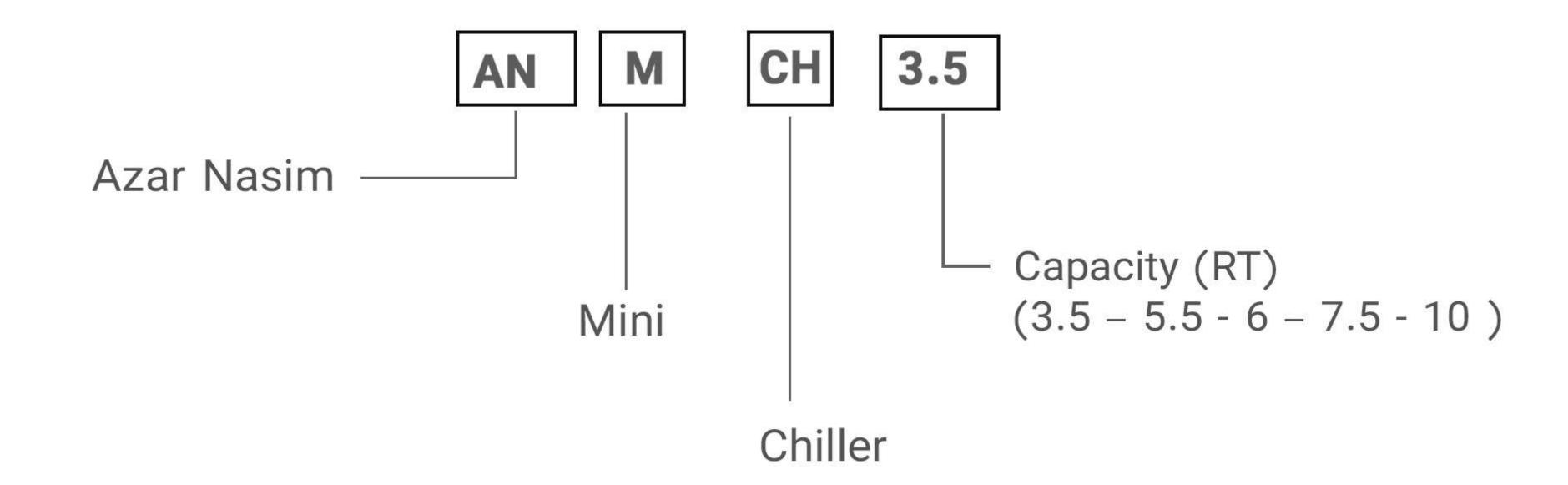
Chilled Water Circuit

AN MCH series has been designed fully integrated and equipped with key hydronic components such as brazed plate or shell & tube heat exchanger, expansion tank and water circulating pump. As all hydronic components are assembled and tested in the factory, installation of additional component on site can be eliminated.

Features

- High efficiency
- Low noise (Azar Nasim uses low noise fans and components to achieve its low noise level)
- •Compact structure Its compact design and excellent performance make it suitable for a wide range of applications.
- Safety running
- Easy maintenance
- Affordable price
- Long life
- ·High ambient function up to 125 °F

Nomenclature



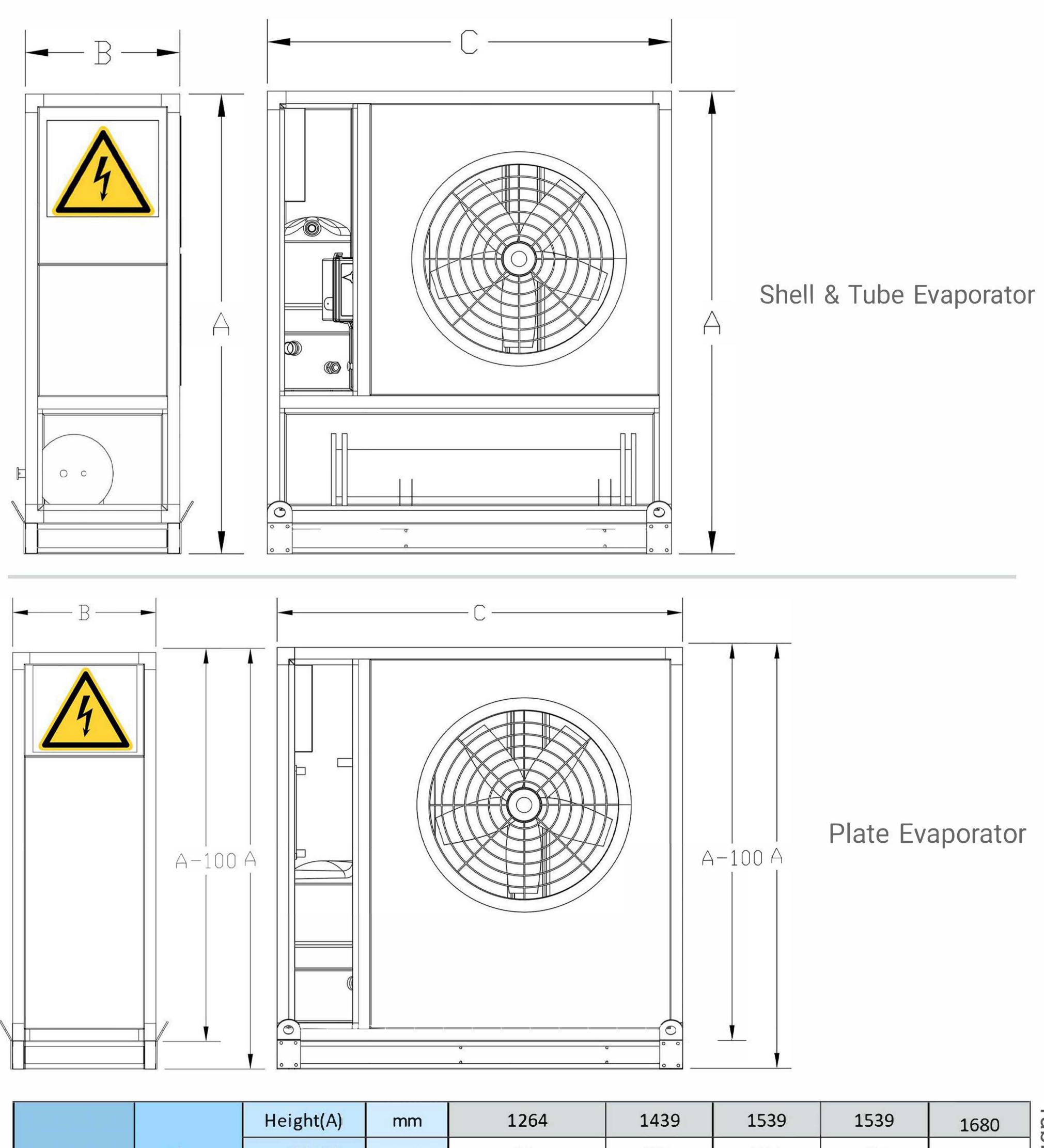
Technical Data

Model				AN MCH-3.5	AN MCH-5	AN MCH-6	AN MCH-7.5	AN MCH-10	
Nominal Capacity			RT	3.5	5	6	7.5	10	
Electerical Data	Total Power Consumption		kW	4.37	5.46	5.87	7	10.6	
	Total Current		Α	9.11	11.27	12.1	14.93	20.12	
	Total Power Supply		V/Ph/Hz	220/1~/50 380/3~/50					
Protective Devices				High/low pressure switch, compressor thermal protection, over current protection, lose of phase/anti-phase protection, antifreez protection, water flow switch					
Refrigerant			Туре	R22					
Compressor	Туре			Scroll					
	No.			1					
	COP			3.67	3.76	3.96	3.96	3.99	
	Туре			Plate Or Shell & Tube					
	Water Flow Rate		GPM	7	10.2	16.5	16.5	22	
Evaporator	Water Inlet/Outlet	Plate	Inch	1	1	2	2	2	
		Shell & tube	Inch	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	
C l	Heat Exchanger			Aluminum fin-copper tube					
Condenser	Fan		quantity	1	1	2	2	2	
Pump	Water Flow Rate		GPM	8	12	17	18	22	
	Head		Ft	10	12.5	14	15	20	
Weight	Plate		kg	150	170	190	220	265	
	Shell & Tube		kg	200	225	240	270	320	

Note:

Cooling capacities are based on conditions of 104°F ambient, 44°F leaving chilled water temperature and 54°F entering chilled water.

Dimensions



Dimensions	Plate	Height(A)	mm	1264	1439	1539	1539	1680	Tab
		width(B)	mm	500	500	500	600	600	ole 2
		Length(C)	mm	1150	1200	1200	1400	1600	
	Shell & Tube	Height(A)	mm	1490	1690	1690	1820	2155	
		width(B)	mm	500	500	500	600	600	
		Length(C)	mm	1300	1400	1400	1600	1600	